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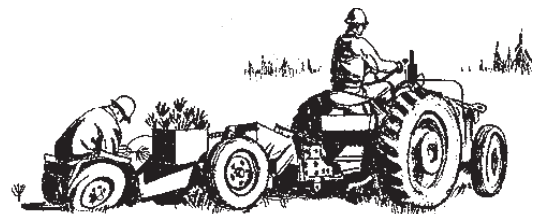
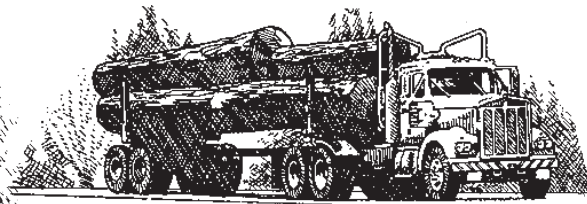
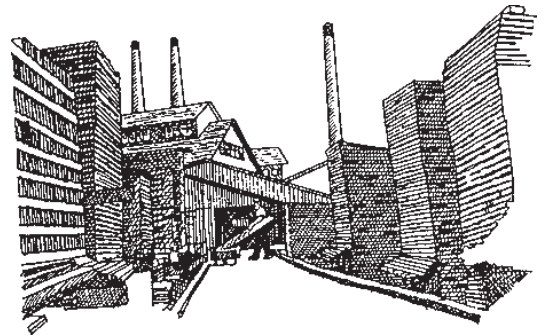
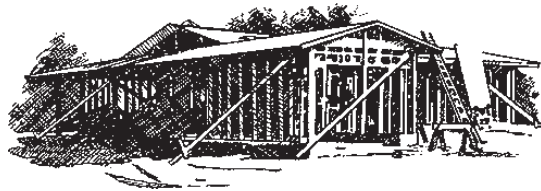


Southern  
Research Station

Resource Bulletin  
SRS-16

# South Carolina's Timber Industry— An Assessment of Timber Product Output and Use, 1995

Tony G. Johnson, Anne Jenkins,  
Daniel P. Stratton, and Peter S. Bischoff

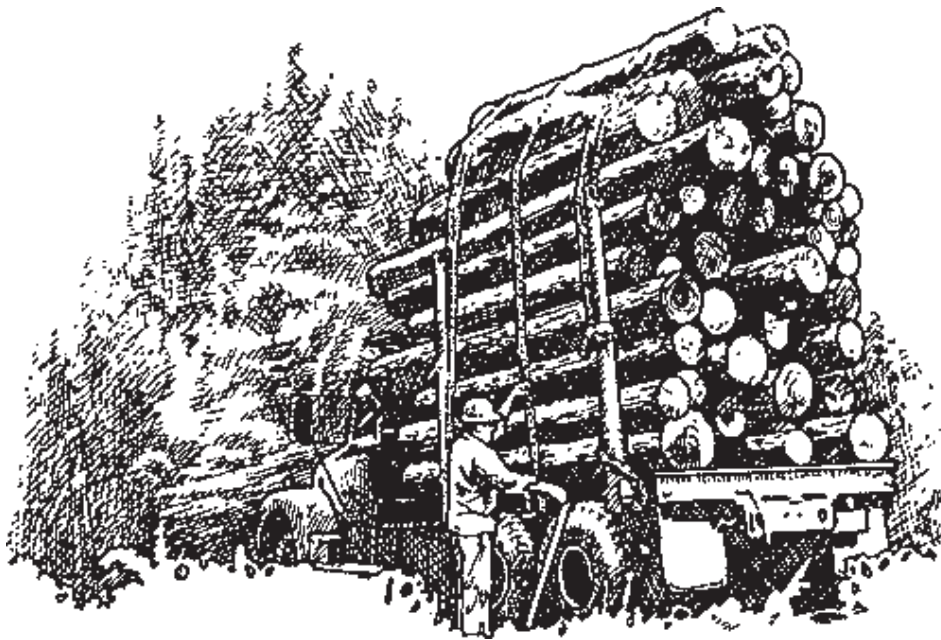


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## Foreword

This report contains the findings of a 1995 canvass of all primary wood-using plants in South Carolina and presents changes in product output and residue use since 1994. It complements the Forest Inventory and Analysis (FIA) periodic inventory of volume and removals from the State's timberland. The canvass was conducted to determine the amount and source of wood receipts and annual timber product drain by county in 1995 and to determine interstate and cross-regional movement of industrial roundwood. Only primary wood-using mills were canvassed. Primary mills are those that process roundwood in log or bolt form or as chipped roundwood. Examples of industrial roundwood products are saw logs, pulpwood, veneer logs, poles, and logs used for composite board products. Mills producing products from residues generated at primary and secondary processors were not canvassed. Trees chipped in the woods were included in the estimate of timber drain only if they were delivered to a primary domestic manufacturer.

A 100-percent canvass of all wood processors in South Carolina was conducted in 1996 to obtain information for 1995. In addition, roundwood from out-of-State mills known to be using logs or bolts harvested from South Carolina timberland was incorporated into South Carolina production estimates. Each mill was canvassed by

mail or through personal contact at plant locations. Telephone contacts followed mailed questionnaire responses when additional information or clarification of response was necessary. In the event of a nonresponse, data collected in previous surveys were updated by current data collected for mills of similar size, product type, and location. Surveys for all timber products other than pulpwood began in 1957, and are currently conducted every year.

Pulpwood production data were taken from an annual canvass of all southeastern pulpmills, conducted in cooperation with the American Pulpwood Association. Medium density fiberboard, insulating board, and hardboard plants were included in this survey.

The Southern Research Station gratefully acknowledges the cooperation and assistance provided by the South Carolina Forestry Commission in collecting mill data. Appreciation is also extended to forest industry and mill managers for providing timber products information. The information in this report is based on responses from 82 percent of mills operating in 1995: 8 pulpmills, 10 of the 14 veneer mills, 7 of the 7 mills manufacturing other industrial products, and 56 of the 70 sawmills. These mills accounted for 81 percent of the 1995 mill receipts.



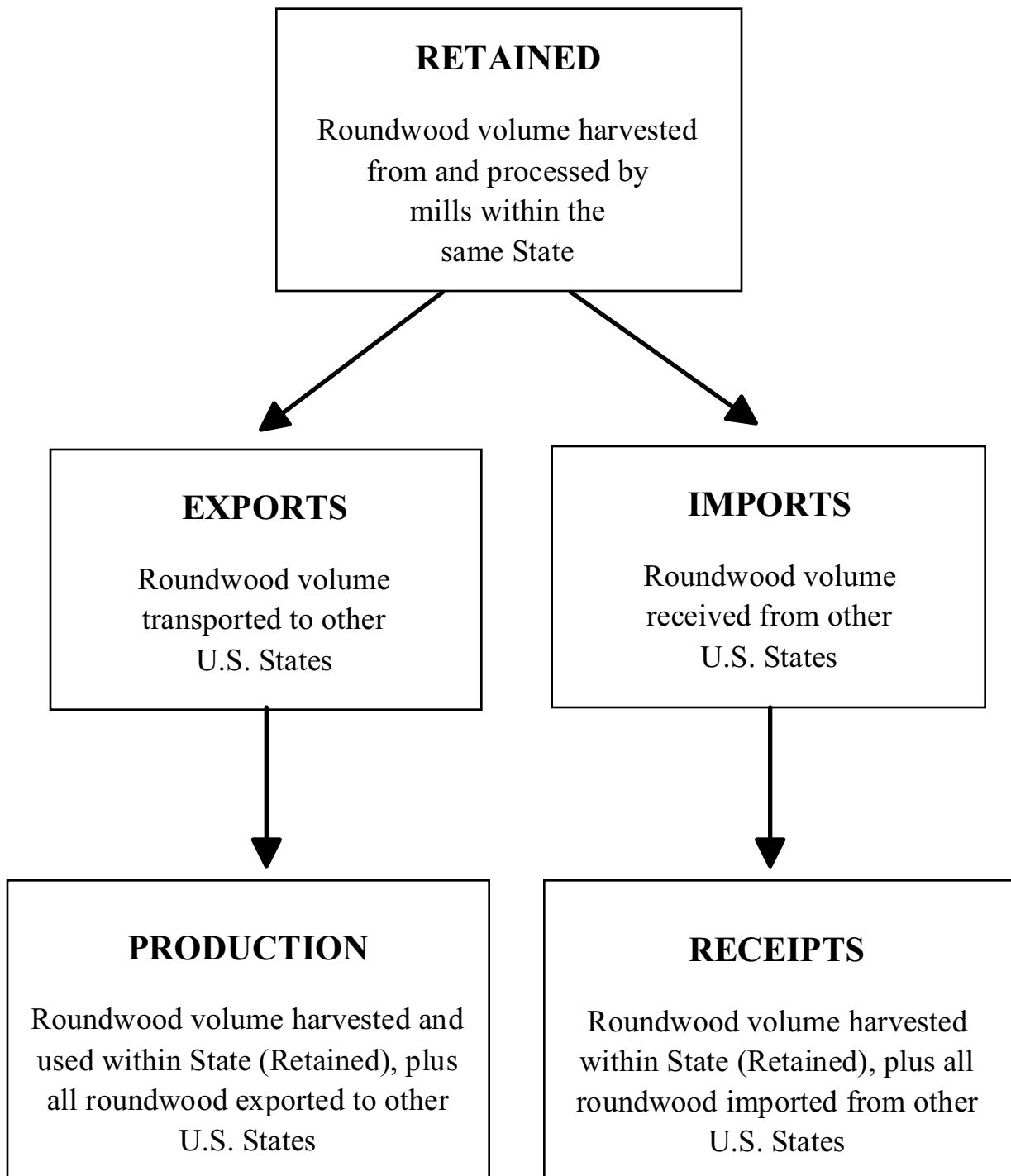


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<sup>a</sup> All tables in this report are available in Microsoft® Excel workbook files. Upon request, these files will be supplied on 3½-inch diskettes.

The use of trade or firm names in this publication is for reader information and does not imply endorsement by the U.S. Department of Agriculture of any product or service.



**Production** = Retained + Exports

**Receipts** = Retained + Imports

Figure 1—Movement of roundwood exports and imports within the United States.



# South Carolina's Timber Industry— An Assessment of Timber Product Output and Use, 1995

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## Output of Industrial Timber Products

Note: The reader must understand that certain terms, namely—retained, export, import, production, and receipts—have specialized meanings and relationships unique to the Forest Inventory and Analysis Units across the country that deal with timber products output (fig. 1).

- 6 Between 1994 and 1995, the combined industrial timber products output (TPO) from roundwood and plant byproducts decreased almost 5 percent from 864 to 824 million cubic feet.
- 6 Timber products output from roundwood was down 31 million cubic feet, or 5 percent, to 622 million cubic feet, while output of plant byproducts dropped 8 million cubic feet to 202 million cubic feet.
- 6 Output of softwood roundwood products declined 7 percent to 478 million cubic feet, while output of hardwood roundwood products increased almost 4 percent to 144 million cubic feet (fig. 2).
- 6 Pulpwood and saw logs were the principal roundwood products in 1995. Combined output of these two products totaled 567 million cubic feet and accounted for 91 percent of the State's total roundwood output (fig. 3).
- 6 Total receipts at South Carolina mills, which included roundwood harvested and retained in the State and roundwood imported from other States, declined by 5 percent to 619 million cubic feet. At the same time, the number of primary roundwood-using plants in South Carolina was down from 105 in 1994 to 99 in 1995.

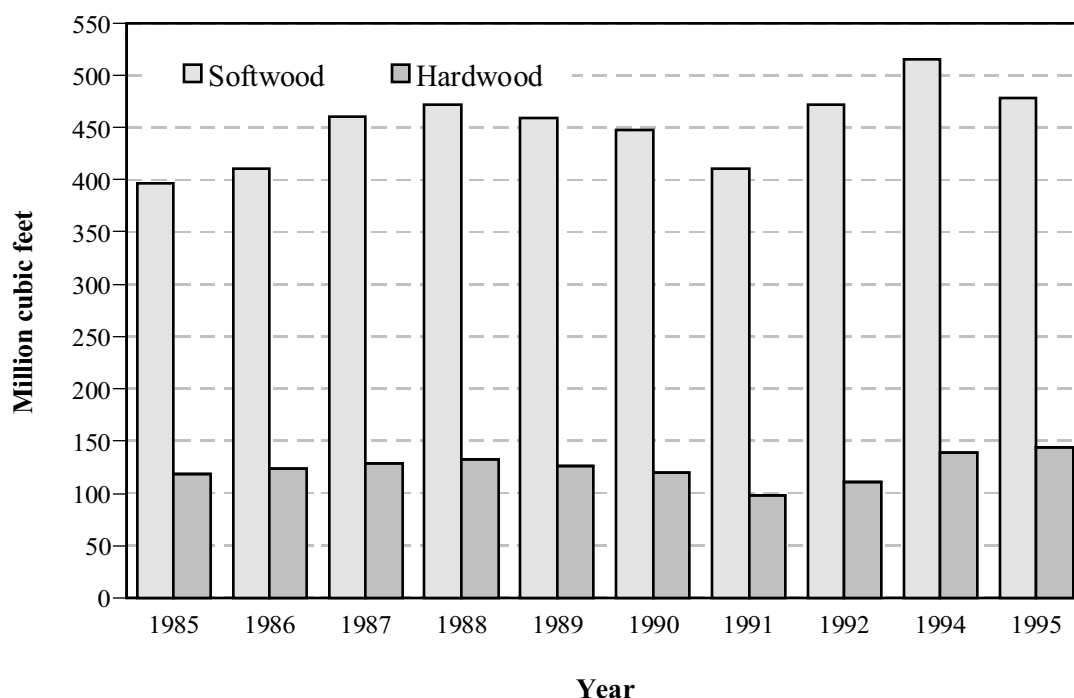


Figure 2—Roundwood production for all products by species group and year.

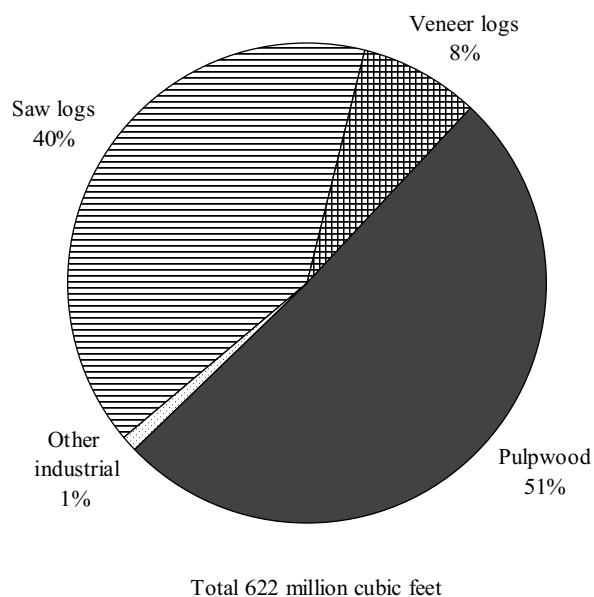


Figure 3—Roundwood production by type of product, 1995.

### Pulpwood

- 6 Pulpwood production, including chipped roundwood, declined almost 15 million cubic feet to 320 million cubic feet (4.6 million cords) and accounted for 51 percent of the State's total roundwood TPO. Softwood output was down 11 percent to 212 million cubic feet, while hardwood output increased 12 percent to 108 million cubic feet (fig. 4).

- 6 Eight pulpmill facilities were operating and receiving roundwood in South Carolina in 1995, the same as in 1994. Total pulpwood receipts for these mills was down almost 24 million cubic feet to 323 million cubic feet, accounting for 52 percent of total receipts for all mills.

- 6 Nearly 71 percent of roundwood cut for pulpwood was retained for processing at South Carolina pulpmills. Roundwood pulpwood accounted for 75 percent of total known exports and 80 percent of total imports. Roundwood pulpwood imports amounted to 96 million cubic feet, or almost 4 million cubic feet more than was exported.

### Saw Logs

- 6 Saw logs accounted for 40 percent of the State's total roundwood products. Output of softwood saw logs declined 5 percent to 219 million cubic feet (1.2 billion board feet), while that of hardwood saw logs dropped 20 percent to 28 million cubic feet (164 million board feet) (fig. 5).

- 6 South Carolina currently has 70 sawmills, a net loss of 6 mills since 1994. Total saw-log receipts decreased 10 million cubic feet to 241 million cubic feet. Softwood saw-log receipts declined 1 percent to 219 million cubic feet, while those of hardwoods declined 25 percent to 22 million cubic feet. Of the operating mills, 16 percent had receipts less than 1 million board feet, while 37 percent had receipts greater than 10 million board feet.

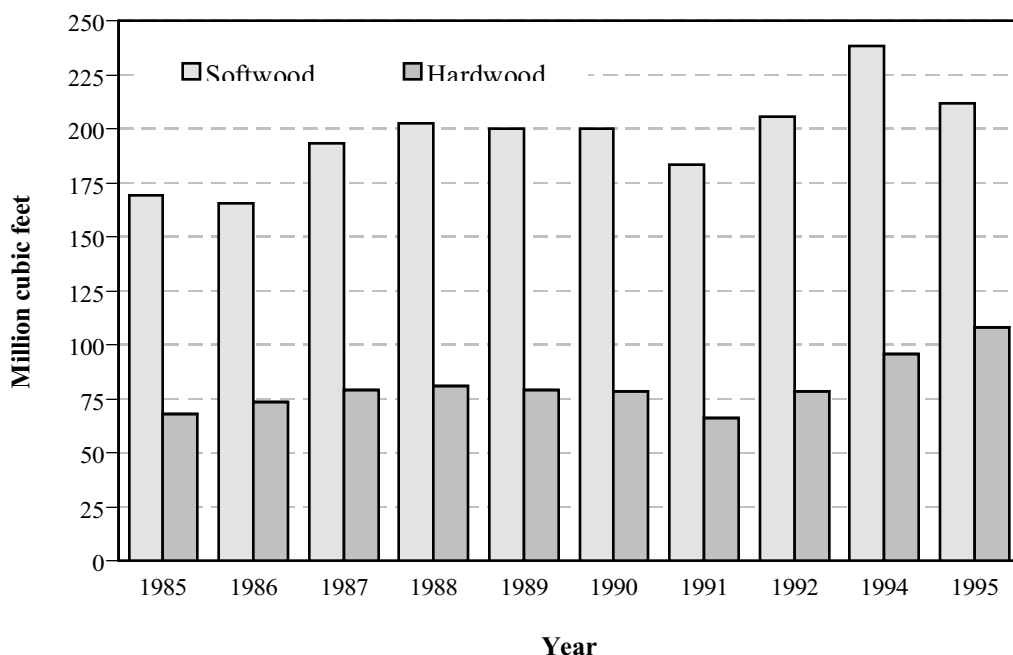


Figure 4—Roundwood pulpwood production by species group and year.



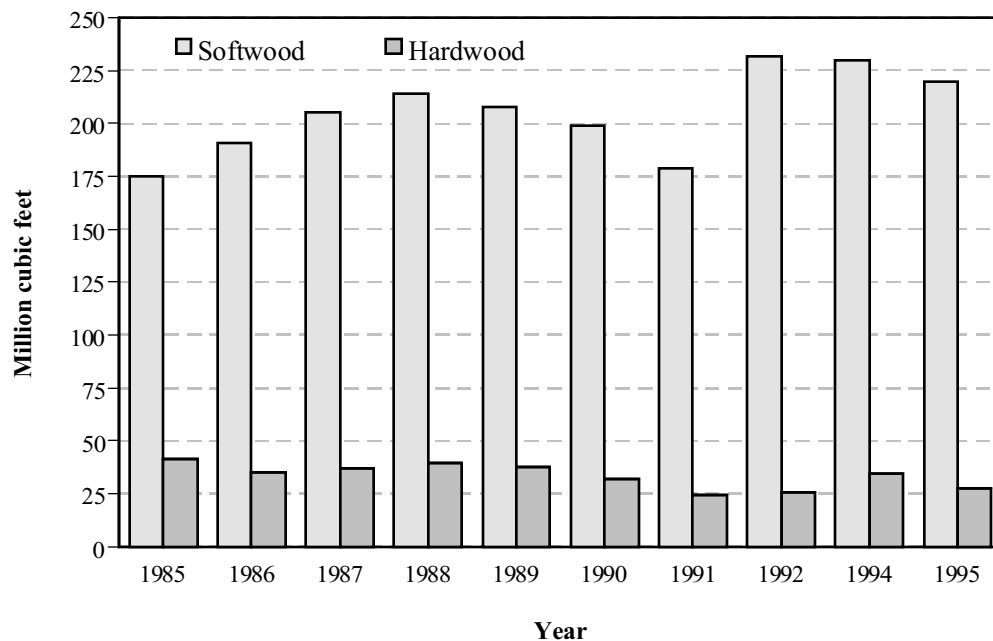


Figure 5—Roundwood saw-log production by species group and year.

- South Carolina retained 90 percent of its saw-log production for domestic manufacture, with saw-log exports exceeding imports by 6 million cubic feet in 1995.

totalled 1.4 million cubic feet. Most of the increase occurred in softwood output exported to Georgia mills.

### Veneer Logs

- Output of veneer logs in 1995 totaled 50 million cubic feet, and accounted for 8 percent of the State's total roundwood TPO volume. Softwood veneer production remained stable at 42 million cubic feet (239 million board feet), while output of hardwood veneer logs increased to 8 million cubic feet (48 million board feet) (fig. 6).
- The number of veneer mills operating in South Carolina remained at 14. Receipts of veneer logs increased 2 percent to 51 million cubic feet. Softwood veneer receipts were up 727 thousand cubic feet, to more than 42 million cubic feet.
- South Carolina retained 94 percent of its veneer-log production for processing at domestic veneer mills. Imports amounted to almost 5 million cubic feet, while exports totaled 3 million cubic feet, making the State a net importer of roundwood veneer logs.

### Composite Panels

- Roundwood harvested from South Carolina's forests for composite panels increased substantially and

### Other Industrial Products

- Roundwood harvested for other industrial uses such as poles, posts, mulch, firewood, logs for log homes, and all other industrial products totaled 4 million cubic feet. Softwood made up all of the other industrial product volume.
- The number of plants producing other industrial products remained at seven. Receipts of other industrial products totaled 3.8 million cubic feet.
- South Carolina was a net exporter of roundwood used for other industrial products; the 500 thousand cubic feet exported and the 300 thousand cubic feet imported were softwood.

### Plant Byproducts

- In 1995, processing of primary products in South Carolina mills generated 203 million cubic feet of wood and bark residues. Coarse residues from all primary products amounted to 76 million cubic feet, while bark volume totaled 62 million cubic feet. Collectively, sawdust and shavings make up 32 percent of total residues, or 65 million cubic feet (fig. 7).

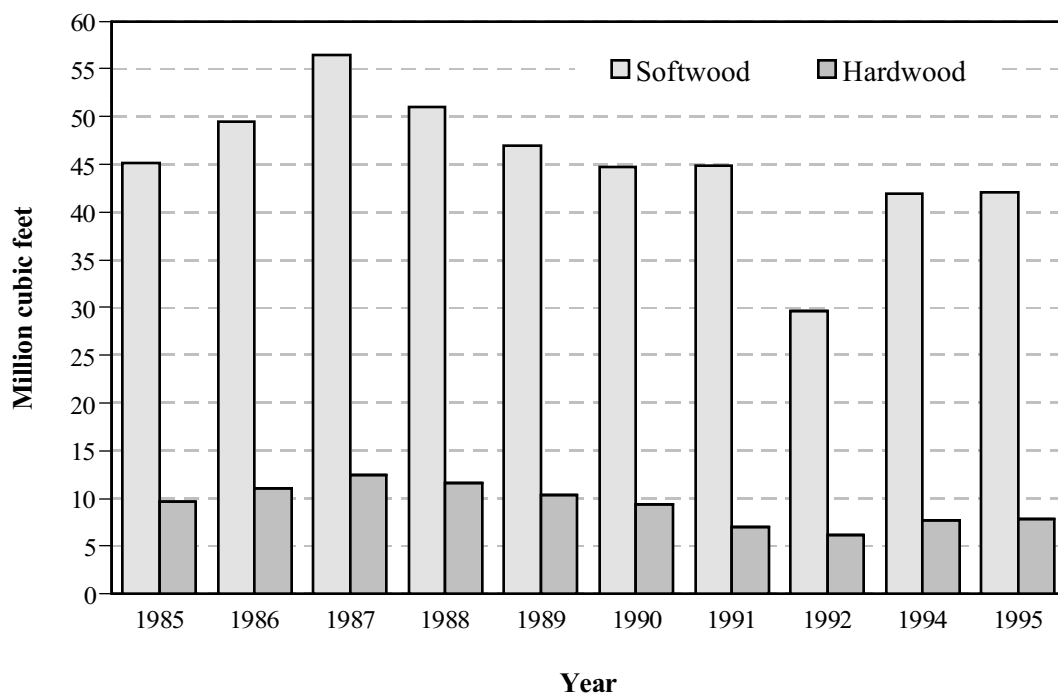


Figure 6—Roundwood veneer-log production by species group and year.

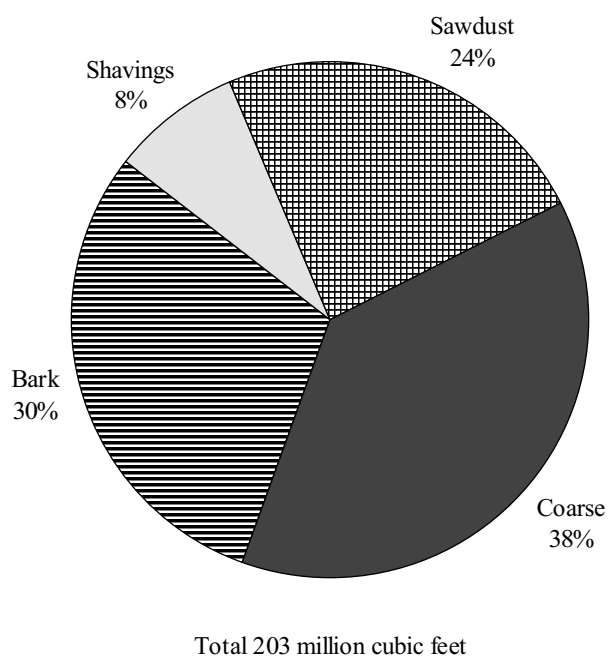


Figure 7—Primary mill residue by residue type, 1995.

6 Almost all of the wood and bark residues were used for a product. Over one-half, or 51 percent, of the residue was used for industrial fuel (fig. 8). More than 64 million cubic feet, or 84 percent, of the coarse residues were used for fiber products. Most of the bark was used for industrial fuel or other miscellaneous products, while 68 percent of the sawdust and shavings were used for industrial fuel.

6 Sawmills generated 134 million cubic feet of mill residues, accounting for 66 percent of the total residues produced (fig. 9).

### Regional Trends

6 Output of industrial roundwood products declined across all regions of South Carolina. The Southern Coastal Plain had the largest decrease at 9 percent.

### Southern Coastal Plain Region

6 Roundwood output from the Southern Coastal Plain region totaled 166 million cubic feet, down 9 percent since 1994. Softwood output declined 8 percent, while hardwood output declined 10 percent.

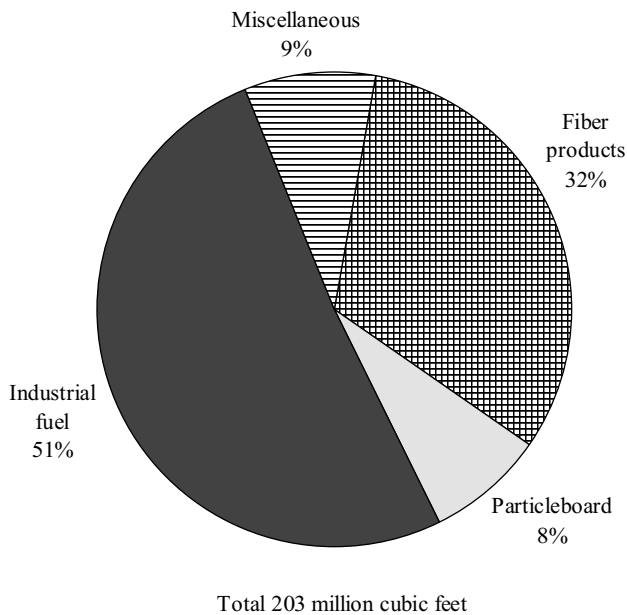


Figure 8—Disposal of residue by product, 1995.

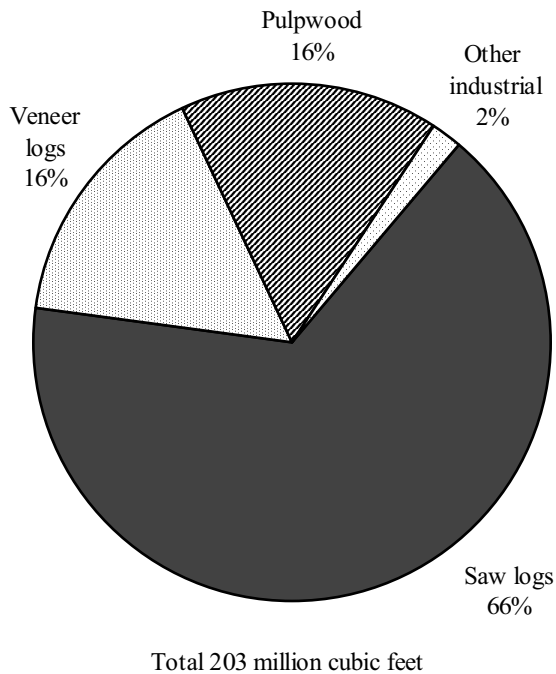


Figure 9—Primary mill residue produced by roundwood type, 1995.

6 Saw-log production of 82 million cubic feet accounted for 49 percent of the total roundwood output for the region. Pulpwood accounted for 44 percent of the region's TPO and 23 percent of the State's roundwood pulpwood output.

6 In the Southern Coastal Plain region, 29 primary wood-using plants were operating during 1995: 18 sawmills, 6 veneer or plywood mills, and 5 other miscellaneous mills (fig. 10). These mills processed 27 percent of the State's total roundwood output.

### Northern Coastal Plain Region

6 About 202 million cubic feet of roundwood were produced in the Northern Coastal Plain region, a decline of 6 percent.

6 Production of pulpwood was down 7 percent but still accounted for 53 percent of the region's total roundwood output and 34 percent of the State's total roundwood pulpwood output. Saw-log production at almost 77 million cubic feet accounted for 38 percent of the region's total roundwood output.

6 The 32 mills operating in the Northern Coastal Plain region in 1995 included: 17 sawmills, 6 veneer or plywood mills, 7 pulpmills, and 2 other miscellaneous mills. These mills processed 32 percent of the State's total roundwood output.

### Piedmont Region

6 Roundwood output from the Piedmont region of South Carolina totaled 254 million cubic feet, a decline of less than 1 percent. Roundwood production from this region accounted for 41 percent of the total roundwood TPO for the State.

6 Pulpwood production increased by 3 percent to 138 million cubic feet, accounting for 54 percent of the region's total TPO. Saw-log production of 89 million cubic feet accounted for another 35 percent of the region's total roundwood output.

6 The 38 primary wood-using plants operating in the Piedmont region included: 35 sawmills, 2 veneer or plywood mills, and 1 pulpmill.

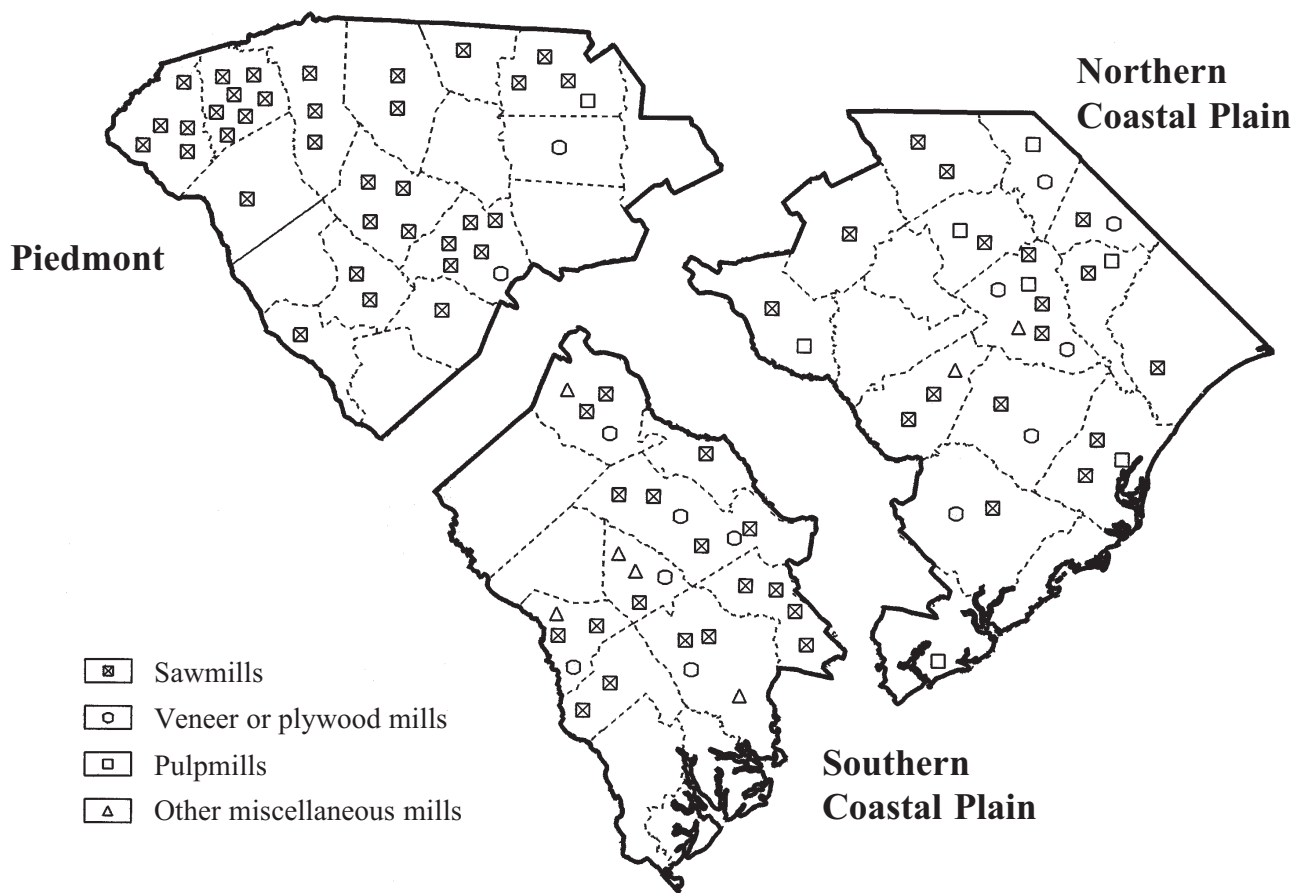


Figure 10—Primary wood-using mills by regions, 1995.

## Total Roundwood Output

- <sup>6</sup> Using the most recent inventory data for South Carolina, product output by source, ownership, and detailed species group was estimated.

### Source

- <sup>6</sup> In addition to the 622 million cubic feet of roundwood output for industrial roundwood, an estimated 56 million cubic feet was harvested for domestic fuelwood bringing South Carolina's total roundwood output to 678 million cubic feet.
- <sup>6</sup> About 92 percent of total roundwood output was considered growing-stock volume from timberland sources. Other sources contributed an estimated 54 million cubic feet, or 8 percent of total roundwood output (fig. 11).

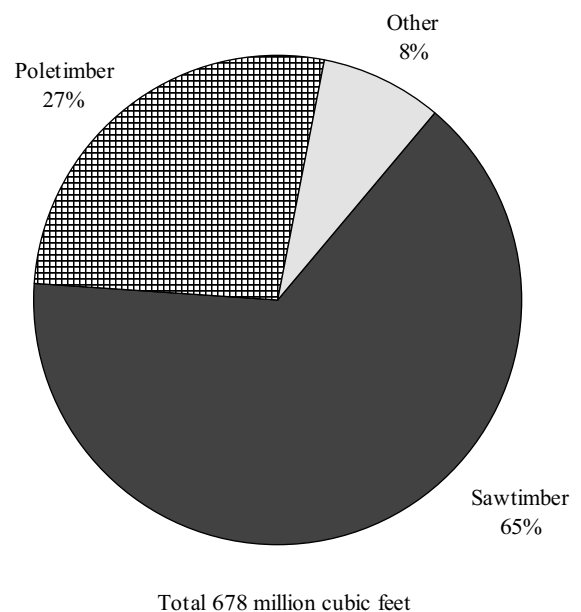


Figure 11—Total roundwood output by source, 1995.

## Ownership

- 6 An estimated 451 million cubic feet, or 67 percent, of the total roundwood output came from nonindustrial private forest lands (NIPF). Forest industry lands contributed 173 million cubic feet, or 25 percent of the output. Public lands made up the remaining 8 percent, or 51 million cubic feet (fig. 12).

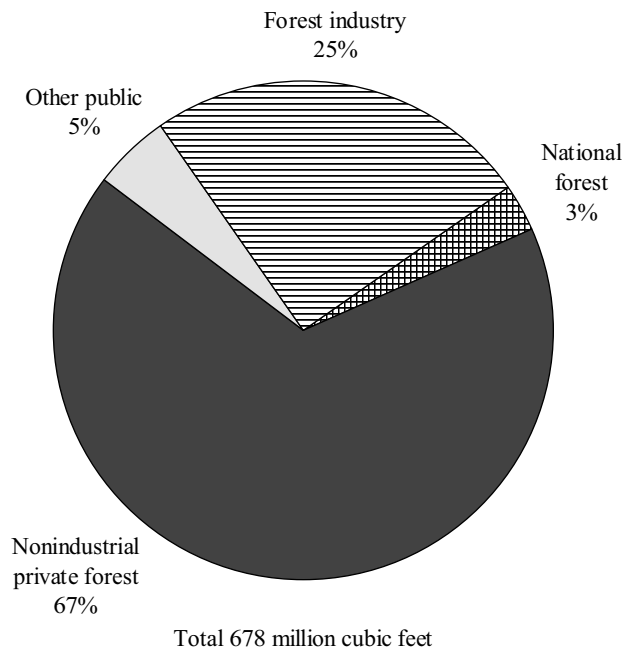


Figure 12—Total roundwood output by ownership, 1995.

## Species

- 6 The loblolly and shortleaf pine group provided the most volume of any softwood species group, accounting for 75 percent of the total softwood output. Slash and longleaf pine type accounted for 15 percent of the softwood output (fig. 13). In hardwoods, the red oak and white oak groups combined accounted for 80 million cubic feet, or 42 percent of total hardwood output (fig. 14).

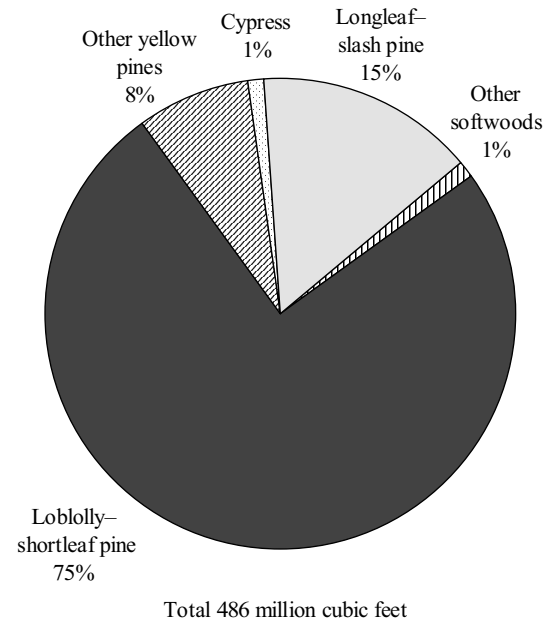


Figure 13—Total roundwood output by softwood species group, 1995.

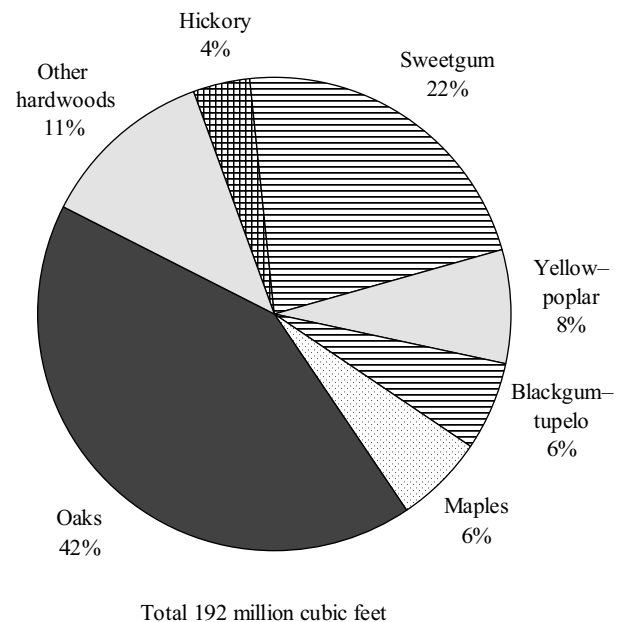


Figure 14—Total roundwood output by hardwood species group, 1995.

## Definitions

**Board feet.** Unit of measure applied to roundwood. It relates to lumber that is 1-foot long, 1-foot wide, and 1-inch thick (or its equivalent).

**Composite panels.** Consists of structural panels (oriented strand board or waferboard) or particleboard (industrial underlayment, thin panelboard).

**Consumption.** The quantity of a commodity, such as pulpwood, utilized.

**Drain.** The volume of roundwood removed from any geographic area where timber is grown.

**Exports.** The volume of roundwood utilized by mills outside the State where timber was cut.

**Imports.** The volume of roundwood delivered to a mill or group of mills in a specific State but harvested outside that State.

**Industrial fuelwood.** A roundwood product, with or without bark, used to generate energy at a manufacturing facility such as a wood-using mill.

**Industrial roundwood products.** Any primary use of the main stem of a tree, such as saw logs, poles, pilings, veneer logs, pulpwood, posts, or cooperage logs.

**Log.** A primary forest product harvested in long, primarily 8-foot, lengths.

**Plant residues.** Wood material generated in the production of timber products at primary manufacturing plants.

*Coarse residues.* Suitable for chipping such as slabs, edgings, trim, veneer cores, and ends.

*Fine residues.* Not suitable for chipping such as sawdust, shavings, and veneer clippings.

**Primary wood-using plants.** Industries that receive roundwood or chips from roundwood for the manufacture of products such as veneer, pulp, and lumber.

**Production.** The total volume of roundwood harvested from land within the specified State, regardless of where consumed. Production is the sum of timber harvested and used within the State, plus all roundwood exported to other U.S. States.

**Pulpwood.** A roundwood product that will be reduced to individual wood fibers by chemical or mechanical means. The fibers are used to make a broad generic group of pulp products that includes paper products as well as chipboard, fiberboard, insulating board, and paperboard.

**Receipts.** The quantity or volume of industrial roundwood received at a mill or by a group of mills in a State, regardless of the geographic source. Volume of roundwood receipts is equal to the volume of roundwood retained in a State plus roundwood imported from other States in the United States.

**Retained.** Roundwood volume harvested from and processed by mills within the same State.

**Roundwood.** Logs, bolts, or other round sections cut from trees for industrial manufacture or consumer use.

**Roundwood chipped.** Any timber cut primarily for industrial manufacture, delivered to nonpulp mills, chipped, and then sold to pulpmills for use as fiber. Includes tops, jump sections, and whole trees.

**Roundwood product drain.** That portion of total drain used for a product.

**Saw log.** A log meeting minimum standards of diameter, length, and defect, including logs at least 8 feet long, sound and straight, and with minimum diameter inside bark of 6 inches for softwoods and 8 inches for hardwoods.

**Standard cord.** A unit measure applied to roundwood, usually bolts or split wood. It relates to a stack of wood 4 feet high, 4 feet wide, and 8 feet long encompassing 128 cubic feet of wood, bark, and air space. In the South, this usually translates to approximately 75.0 cubic feet of solid wood for pulpwood, because pulpwood is more uniform.

**Timber products output.** Roundwood production in an area's forests (equals roundwood product drain).

**Timber removals.** The merchantable volume of trees removed from the timberland inventory by harvesting, cultural operations such as stand improvement, land clearing, or changes in land use.

**Veneer log.** A log used in the production of plywood, finished panels, or veneer sheets, both rotary cut and sliced.



## **Conversion Factors<sup>a</sup>**

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### **Saw logs**

Softwood	0.18018 cubic foot = 1 board foot 5.55 board feet = 1 cubic foot
Hardwood	0.16750 cubic foot = 1 board foot 5.97 board feet = 1 cubic foot

### **Veneer logs**

Softwood	0.17601 cubic foot = 1 board foot 5.68 board feet = 1 cubic foot
Hardwood	0.16340 cubic foot = 1 board foot 6.12 board feet = 1 cubic foot

### **Pulpwood<sup>b</sup>**

Softwood	68.6 cubic feet per cord
Hardwood	70.5 cubic feet per cord

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<sup>a</sup> Conversion factors vary with stem size (d.b.h.) and species.

The factors shown are for trees of average diameters removed in South Carolina during the most recent survey period.

<sup>b</sup> Cubic feet of solid wood per cord.

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**Table 1—Output of industrial products by product and species group,  
South Carolina, 1994 and 1995**

Product and species group	Year		Change	Percent change
	1994	1995		
Thousand cubic feet				
Saw logs				
Softwood	229,978	219,484	-10,494	-4.6
Hardwood	34,510	27,615	-6,895	-20.0
Total	264,488	247,099	-17,389	-6.6
Veneer logs				
Softwood	41,957	42,086	129	0.3
Hardwood	7,680	7,881	201	2.6
Total	49,637	49,967	330	0.7
Pulpwood <sup>a</sup>				
Softwood	238,111	211,577	-26,534	-11.1
Hardwood	96,074	107,941	11,867	12.4
Total	334,185	319,518	-14,667	-4.4
Composite panels				
Softwood	7	1,302	1,295	18,500.0
Hardwood	37	70	33	89.2
Total	44	1,372	1,328	3,018.2
Other industrial				
Softwood	4,800	4,026	-774	-16.1
Hardwood	0	0	0	--
Total	4,800	4,026	-774	-16.1
All industrial				
Softwood	514,853	478,475	-36,378	-7.1
Hardwood	138,301	143,507	5,206	3.8
Total	653,154	621,982	-31,172	-4.8
Byproduct output				
Softwood	177,563	170,900	-6,663	-3.8
Hardwood	33,306	31,587	-1,719	-5.2
Total	210,869	202,487	-8,382	-4.0
Total output				
Softwood	692,416	649,375	-43,041	-6.2
Hardwood	171,607	175,094	3,487	2.0
Total	864,023	824,469	-39,554	-4.6

-- = negligible.

<sup>a</sup> Includes roundwood that was delivered to nonpulp mills and then chipped and sold to pulp mills (13,034,000 cubic feet in 1994 and 7,131,000 cubic feet in 1995).

**Table 2—Roundwood receipts by product and species group,  
South Carolina, 1994 and 1995**

Product and species group	Year		Change	Percent change
	1994	1995		
Thousand cubic feet				
Saw logs				
Softwood	221,594	219,003	-2,591	-1.2
Hardwood	29,255	21,971	-7,284	-24.9
Total	250,849	240,974	-9,875	-3.9
Veneer logs				
Softwood	41,705	42,432	727	1.7
Hardwood	8,653	8,955	302	3.5
Total	50,358	51,387	1,029	2.0
Pulpwood <sup>a</sup>				
Softwood	251,767	222,044	-29,723	-11.8
Hardwood	95,204	101,244	6,040	6.3
Total	346,971	323,288	-23,683	-6.8
Composite panels				
Softwood	0	0	0	--
Hardwood	0	0	0	--
Total	0	0	0	--
Other industrial				
Softwood	3,525	3,815	290	8.2
Hardwood	0	0	0	--
Total	3,525	3,815	290	8.2
Total output				
Softwood	518,591	487,294	-31,297	-6.0
Hardwood	133,112	132,170	-942	-0.7
Total	651,703	619,464	-32,239	-4.9

-- = negligible.

<sup>a</sup> Includes roundwood that was delivered to nonpulp mills and then chipped and sold to pulp mills (14,906,000 cubic feet in 1994 and 7,897,000 cubic feet in 1995).

**Table 3—Number of primary wood-using plants by industry, South Carolina, 1977-1995**

Industry	Year								
	1977	1979	1983	1985	1987	1989	1992	1994	1995
Sawmills	119	128	113	118	99	87	79	76	70
Veneer mills	23	24	21	21	20	17	14	14	14
Pulpmills	7	7	8	8	8	8	9	8	8
Composite panel mills	0	0	0	0	0	0	0	0	0
Other mills	5	4	6	8	6	5	9	7	7
All plants	154	163	148	155	133	117	111	105	99

**Table 4—Roundwood receipts by sawmill size, South Carolina, 1994 and 1995**

Sawmill size class <sup>a</sup>	1994			1995		
	Number of mills	Thousand board feet	Percent of volume	Number of mills	Thousand board feet	Percent of volume
<i>Million board feet</i>						
< 1.0	10	5,135	—	11	3,510	—
1.0 - 4.99	24	65,481	5	19	48,424	4
5.0 - 9.99	13	90,073	6	14	92,989	7
10.0 - 49.99	20	394,858	28	16	323,721	24
> 50	9	856,814	61	10	860,652	65
Total	76	1,412,361	100	70	1,329,296	100

<sup>a</sup> Based on volume received as opposed to actual capacity.

**Table 5—Roundwood receipts by species and type of mill, South Carolina, 1995**

Species	Type of mill					
	All mills	Sawmills	Veneer mills		OSB <sup>a</sup> and panels	Pulpmills <sup>b</sup>
			Pine plywood	Other veneer		
<i>Thousand cubic feet</i>						
<b>Softwood</b>						
	263,777		42,412		0	3,815
	102		0		0	0
	29		0		0	0
	1,342		0		0	0
	222,044		0		0	0
	487,294		42,412		0	3,815
Blackgum and tupelo		753		309		NA
Soft maple		981		171		NA
Sweetgum		1,706		2,305		NA
Yellow-poplar		5,128		989		NA
Other soft hardwood		1,553		423		NA
Hickory		224		0		NA
Red oak		5,867		438		NA
White oak		3,567		360		NA
Other hard hardwood		2,192		141		NA
Unclassified		0		0		101,244
	132,170		3,819		0	0
	619,464		46,231		0	3,815

NA = not applicable.

<sup>a</sup> OSB = oriented strand board.

<sup>b</sup> Only collected by softwood and hardwood and includes roundwood chipped.



**Table 6—Industrial roundwood movement by year and species group,**

Year	Production	Exported to other States	Retained	Imported from other States	Receipts
<i>Thousand cubic feet</i>					
<b>Softwood</b>					
1994	514,853	78,226	436,627	81,964	518,591
1995	478,475	73,925	404,550	82,744	487,294
<b>Hardwood</b>					
1994	138,301	37,157	101,144	31,968	113,112
1995	143,507	47,833	95,674	36,496	132,170
<b>All species</b>					
1994	653,154	115,383	537,771	113,932	651,703
1995	621,982	121,758	500,224	119,240	619,464

Product and species group	Production	Exported to other States	Retained	Imported from other States	Receipts
<i>Thousand cubic feet</i>					
<b>Saw logs</b>					
Softwood	219,484	17,703	201,781	17,222	219,003
Hardwood	27,615	7,172	20,443	1,528	21,971
Total	247,099	24,875	222,224	18,750	240,974
<b>Veneer logs</b>					
Softwood	42,086	2,681	39,405	3,027	42,432
Hardwood	7,881	469	7,412	1,543	8,955
Total	49,967	3,150	46,817	4,570	51,387
<b>Pulpwood<sup>a</sup></b>					
Softwood	211,577	51,731	159,846	62,198	222,044
Hardwood	107,941	40,122	67,819	33,425	101,244
Total	319,518	91,853	227,665	95,623	323,288
<b>Composite panels</b>					
Softwood	1,302	1,302	0	0	0
Hardwood	70	70	0	0	0
Total	1,372	1,372	0	0	0
<b>Other industrial</b>					
Softwood	4,026	508	3,518	297	3,815
Hardwood	0	0	0	0	0
Total	4,026	508	3,518	297	3,815
<b>All products</b>					
Softwood	478,475	73,925	404,550	82,744	487,294
Hardwood	143,507	47,833	95,674	36,496	132,170
Total	621,982	121,758	500,224	119,240	619,464

<sup>a</sup> Includes roundwood chipped.

**Table 8—Saw-log volume by destination, source, and species group, South Carolina, 1995**

and source	All	Species group	
		Softwood	Hardwood
Thousand cubic feet			
	222,224	201,781	
Exports to:			
Florida		56	0
	13,179	13,173	
North Carolina	11,571		7,164
Tennessee		67	2
	24,875	17,703	
Imports from:			
Georgia		7,377	1,162
	7	0	
Mississippi	7		7
North Carolina		9,845	345
	7	0	
Total	18,750		1,528

**Table 9—Veneer volume by destination, source, and species group, South Carolina, 1995**

and source	All	Species group	
		Softwood	Hardwood
<i>Thousand cubic feet</i>			
	46,817	39,405	
<b>Exports to:</b>			
Georgia		0	203
	2,947	2,681	
Total	3,150		469
<b>Imports from:</b>			
	1,660	1,117	
North Carolina	2,910		1,000
Total		3,027	1,543

**Table 10—Pulpwood volume by destination, source, and species group, South Carolina, 1995<sup>a</sup>**

Destination and source	All species	Species group	
		Softwood	Hardwood
Thousand cubic feet			
South Carolina (retained)	227,665		67,819
Exports to:			
	405	405	
Georgia	64,679		35,196
Louisiana		956	0
	25,813	20,887	
Total	91,853		40,122
Imports from:			
	1,736	341	
North Carolina	93,018		31,535
Virginia		374	439
	56	0	
Total	95,623		33,425

<sup>a</sup> Includes roundwood chipped that was delivered to nonpulpmills and then chipped and sold to pulpmills.

**Table 11—Composite panel volume by destination, source, and species group, South Carolina, 1995**

Destination and source	All species	Species group	
		Softwood	Hardwood
<i>Thousand cubic feet</i>			
<b>South Carolina (retained)</b>	0	0	0
<b>Exports to:</b>			
Georgia	1,372	1,302	70
Total	1,372	1,302	70

**Table 12—Other industrial volume by destination, source,  
and species group, South Carolina, 1995<sup>a</sup>**

Destination and source	All species	Species group	
		Softwood	Hardwood
Thousand cubic feet			
South Carolina (retained)	3,518	3,518	0
Exports to:			
Florida	19	19	0
Georgia	245	245	0
North Carolina	244	244	0
Total	508	508	0
Imports from:			
Georgia	80	80	0
North Carolina	217	217	0
Total	297	297	0

<sup>a</sup> Includes poles, posts, mulch, firewood, log homes, charcoal, and all other industrial mills.

**Table 13—Primary mill residue volume by roundwood type, species group, and residue type, South Carolina, 1995**

Roundwood type and species group	All types	Residue type			
		Bark	Coarse	Sawdust	Shavings
Thousand cubic feet					
Saw logs					
Softwood	120,117	18,650	53,373	31,040	17,054
Hardwood	13,858	2,358	7,042	4,331	127
Total	133,975	21,008	60,415	35,371	17,181
Veneer logs					
Softwood	24,959	3,696	11,189	10,074	0
Hardwood	6,313	991	2,761	2,561	0
Total	31,272	4,687	13,950	12,635	0
Pulpwood					
Softwood	21,049	21,049	0	0	0
Hardwood	11,621	11,621	0	0	0
Total	32,670	32,670	0	0	0
Composite panels					
Softwood	0	0	0	0	0
Hardwood	0	0	0	0	0
Total	0	0	0	0	0
Other industrial <sup>a</sup>					
Softwood	4,843	3,293	1,550	0	0
Hardwood	0	0	0	0	0
Total	4,843	3,293	1,550	0	0
Total					
Softwood	170,968	46,688	66,112	41,114	17,054
Hardwood	31,792	14,970	9,803	6,892	127
Total	202,760	61,658	75,915	48,006	17,181

<sup>a</sup> Includes poles, pilings, posts, and other industrial products.



**Table 14—Disposal of residue at primary wood-using plants by product, species group, and type of residue,  
South Carolina, 1994 and 1995**

Product and species group	All types		Bark		Coarse		Sawdust		Shavings	
	1994	1995	1994	1995	1994	1995	1994	1995	1994	1995
<i>Thousand cubic feet</i>										
<b>Fiber products</b>										
Softwood	61,116	56,862	0	0	61,116	56,276	0	0	0	586
Hardwood	8,454	7,819	0	0	8,454	7,819	0	0	0	0
Total	69,570	64,681	0	0	69,570	64,095	0	0	0	586
<b>Particleboard</b>										
Softwood	20,593	15,817	0	0	2,510	4,777	5,957	2,809	12,126	8,231
Hardwood	448	895	0	0	355	848	0	0	93	47
Total	21,041	16,712	0	0	2,865	5,625	5,957	2,809	12,219	8,278
<b>Composite panels</b>										
Softwood	0	0	0	0	0	0	0	0	0	0
Hardwood	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0
<b>Sawn products</b>										
Softwood	568	296	0	0	494	296	0	0	74	0
Hardwood	0	0	0	0	0	0	0	0	0	0
Total	568	296	0	0	494	296	0	0	74	0
<b>Fuel</b>										
Softwood	81,567	80,374	43,135	39,747	2,671	2,611	32,749	35,674	3,012	2,342
Hardwood	23,045	21,675	14,012	14,028	981	1,134	7,936	6,441	116	72
Total	104,612	102,049	57,147	53,775	3,652	3,745	40,685	42,115	3,128	2,414
<b>Miscellaneous</b>										
Softwood	13,719	17,551	7,018	6,934	194	2,097	3,770	2,626	2,737	5,894
Hardwood	1,359	1,198	890	748	45	0	410	443	14	7
Total	15,078	18,749	7,908	7,682	239	2,097	4,180	3,069	2,751	5,901
<b>Not used</b>										
Softwood	49	68	8	7	29	55	8	5	4	1
Hardwood	225	205	178	194	3	2	30	8	14	1
Total	274	273	186	201	32	57	38	13	18	2
<b>All products</b>										
Softwood	177,612	170,968	50,161	46,688	67,014	66,112	42,484	41,114	17,953	17,054
Hardwood	33,531	31,792	15,080	14,970	9,838	9,803	8,376	6,892	237	127
Total	211,143	202,760	65,241	61,658	76,852	75,915	50,860	48,006	18,190	17,181

**Table 15—Roundwood timber products output by product and species group, Southern Coastal Plain of South Carolina, 1994 and 1995**

Product and species group	Year		Change	Percent change
	1994	1995		
Thousand cubic feet				
Saw logs				
Softwood	77,496	75,714	-1,782	-2.3
Hardwood	9,574	5,803	-3,771	-39.4
Total	87,070	81,517	-5,553	-6.4
Veneer logs				
Softwood	5,467	5,498	31	0.6
Hardwood	3,891	4,037	146	3.8
Total	9,358	9,535	177	1.9
Pulpwood <sup>a</sup>				
Softwood	57,771	47,672	-10,099	-17.5
Hardwood	26,748	26,274	-474	-1.8
Total	84,519	73,946	-10,573	-12.5
Composite panels				
Softwood	0	0	0	--
Hardwood	0	0	0	--
Total	0	0	0	--
Other industrial				
Softwood	1,399	1,260	-139	-9.9
Hardwood	0	0	0	--
Total	1,399	1,260	-139	-9.9
All industrial				
Softwood	142,133	130,144	-11,989	-8.4
Hardwood	40,213	36,114	-4,099	-10.2
Total	182,346	166,258	-16,088	-8.8

-- = negligible.

<sup>a</sup> Includes roundwood that was delivered to nonpulp mills and then chipped and sold to pulp mills (3,041,000 cubic feet in 1994 and 2,910,000 cubic feet in 1995).

**Table 16—Roundwood timber products output by county, product, and species group,  
Southern Coastal Plain of South Carolina, 1995**

County	All products		Saw logs		Veneer logs		Pulpwood <sup>a</sup>		Composite panels		Other industrial	
	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood
<i>Thousand cubic feet</i>												
Aiken	11,170	3,434	5,339	208	0	434	5,608	2,792	0	0	223	0
Allendale	9,903	2,557	7,747	922	0	490	2,127	1,145	0	0	29	0
Bamberg	6,619	1,824	5,300	839	0	190	1,286	795	0	0	33	0
Barnwell	9,025	4,816	5,777	692	0	697	3,164	3,427	0	0	84	0
Beaufort	6,738	691	4,309	0	0	0	2,406	691	0	0	23	0
Calhoun	3,453	1,258	903	0	1,390	208	1,096	1,050	0	0	64	0
Colleton	20,864	3,253	13,355	1,468	0	310	7,399	1,475	0	0	110	0
Dorchester	13,929	1,873	7,975	348	2,363	157	3,548	1,368	0	0	43	0
Hampton	18,168	4,370	9,186	460	0	446	8,890	3,464	0	0	92	0
Jasper	10,280	1,893	5,440	0	0	275	4,737	1,618	0	0	103	0
Lexington	6,074	2,783	2,789	199	355	0	2,619	2,584	0	0	311	0
Orangeburg	13,921	7,362	7,594	667	1,390	830	4,792	5,865	0	0	145	0
All counties	130,144	36,114	75,714	5,803	5,498	4,037	47,672	26,274	0	0	1,260	0

<sup>a</sup> Includes roundwood that was delivered to nonpulpmills and then chipped and sold to pulpmills (2,910,000 cubic feet in 1995).

**Table 17—Roundwood timber products output by product and species group, Northern Coastal Plain of South Carolina, 1994 and 1995**

Product and species group	Year		Change	Percent change
	1994	1995		
Thousand cubic feet				
Saw logs				
Softwood	71,081	66,844	-4,237	-6.0
Hardwood	11,101	9,753	-1,348	-12.1
Total	82,182	76,597	-5,585	-6.8
Veneer logs				
Softwood	14,486	13,961	-525	-3.6
Hardwood	1,633	1,754	121	7.4
Total	16,119	15,715	-404	-2.5
Pulpwood <sup>a</sup>				
Softwood	83,129	73,239	-9,890	-11.9
Hardwood	32,521	34,281	1,760	5.4
Total	115,650	107,520	-8,130	-7.0
Composite panels				
Softwood	0	0	0	--
Hardwood	0	0	0	--
Total	0	0	0	--
Other industrial				
Softwood	1,380	1,537	157	11.4
Hardwood	0	0	0	--
Total	1,380	1,537	157	11.4
All industrial				
Softwood	170,076	155,581	-14,495	-8.5
Hardwood	45,255	45,788	533	1.2
Total	215,331	201,369	-13,962	-6.5

-- = negligible.

<sup>a</sup> Includes roundwood that was delivered to nonpulp mills and then chipped and sold to pulp mills (2,765,000 cubic feet in 1994 and 1,820,000 cubic feet in 1995).

**Table 18—Roundwood timber products output by county, product, and species group,  
Northern Coastal Plain of South Carolina, 1995**

County	All products		Saw logs		Veneer logs		Pulpwood <sup>a</sup>		Composite panels		Other industrial	
	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood
<i>Thousand cubic feet</i>												
Berkeley	8,408	500	2,433	167	1,390	0	4,574	333	0	0	11	0
Charleston	3,845	641	1,809	119	0	0	1,981	522	0	0	55	0
Chesterfield	15,883	6,644	3,832	812	1,332	160	10,719	5,672	0	0	0	0
Clarendon	4,504	941	1,832	232	1,112	173	1,560	536	0	0	0	0
Darlington	4,108	5,761	2,035	3,616	0	43	1,961	2,102	0	0	112	0
Dillon	5,213	3,251	1,688	340	617	61	2,782	2,850	0	0	126	0
Florence	15,546	4,289	11,499	1,440	16	172	3,848	2,677	0	0	183	0
Georgetown	16,618	3,194	5,281	0	2,363	48	8,696	3,146	0	0	278	0
Horry	20,379	6,346	10,914	811	1,582	50	7,416	5,485	0	0	467	0
Kershaw	15,722	3,028	4,051	881	832	222	10,701	1,925	0	0	138	0
Lee	1,527	448	672	0	0	0	855	448	0	0	0	0
Marion	11,892	2,846	8,702	448	482	178	2,639	2,220	0	0	69	0
Marlboro	7,834	2,336	3,136	449	1,332	267	3,366	1,620	0	0	0	0
Richland	7,886	2,477	2,734	31	0	255	5,152	2,191	0	0	0	0
Sumter	2,558	1,278	578	87	118	9	1,862	1,182	0	0	0	0
Williamsburg	13,658	1,808	5,648	320	2,785	116	5,127	1,372	0	0	98	0
All counties	155,581	45,788	66,844	9,753	13,961	1,754	73,239	34,281	0	0	1,537	0

<sup>a</sup> Includes roundwood that was delivered to nonpulp mills and then chipped and sold to pulp mills (1,820,000 cubic feet in 1995).

**Table 19—Roundwood timber products output by product and species group, Piedmont of South Carolina, 1994 and 1995**

Product and species group	Year		Change	Percent change
	1994	1995		
Thousand cubic feet				
Saw logs				
Softwood	81,401	76,926	-4,475	-5.5
Hardwood	13,835	12,059	-1,776	-12.8
Total	95,236	88,985	-6,251	-6.6
Veneer logs				
Softwood	22,004	22,627	623	2.8
Hardwood	2,156	2,090	-66	-3.1
Total	24,160	24,717	557	2.3
Pulpwood <sup>a</sup>				
Softwood	97,211	90,666	-6,545	-6.7
Hardwood	36,805	47,386	10,581	28.7
Total	134,016	138,052	4,036	3.0
Composite panels				
Softwood	7	1,302	1,295	18,500.0
Hardwood	37	70	33	89.2
Total	44	1,372	1,328	3,018.2
Other industrial				
Softwood	2,021	1,229	-792	-39.2
Hardwood	0	0	0	--
Total	2,021	1,229	-792	-39.2
All industrial				
Softwood	202,644	192,750	-9,894	-4.9
Hardwood	52,833	61,605	8,772	16.6
Total	255,477	254,355	-1,122	-0.4

-- = negligible.

<sup>a</sup> Includes roundwood that was delivered to nonpulp mills and then chipped and sold to pulp mills (7,228,000 cubic feet in 1994 and 2,401,000 cubic feet in 1995).

**Table 20—Roundwood timber products output by county, product, and species group, Piedmont of South Carolina, 1995**

County	All products		Saw logs		Veneer logs		Pulpwood <sup>a</sup>		Composite panels		Other industrial	
	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood	Soft-wood	Hard-wood
<i>Thousand cubic feet</i>												
Abbeville	5,828	3,151	3,517	575	0	40	2,205	2,536	0	0	106	0
Anderson	4,348	2,489	3,034	1,266	355	40	823	1,183	0	0	136	0
Cherokee	7,674	1,561	1,130	935	1,591	50	4,953	576	0	0	0	0
Chester	12,927	3,501	3,689	351	2,139	335	7,076	2,815	0	0	23	0
Edgefield	15,499	4,352	8,422	0	237	0	6,651	4,352	0	0	189	0
Fairfield	21,015	3,764	6,966	151	3,206	125	10,729	3,488	0	0	114	0
Greenville	3,550	3,346	1,560	1,672	0	54	1,990	1,620	0	0	0	0
Greenwood	11,055	4,730	6,546	391	1,543	125	2,966	4,214	0	0	0	0
Lancaster	8,251	2,090	1,103	227	832	125	6,316	1,738	0	0	0	0
Laurens	14,980	3,166	7,324	1,342	2,611	125	5,045	1,699	0	0	0	0
McCormick	9,830	2,991	7,145	241	474	0	2,150	2,750	0	0	61	0
Newberry	23,053	9,905	7,936	704	3,014	72	11,816	9,129	0	0	287	0
Oconee	7,508	2,744	2,600	1,071	0	40	4,257	1,598	651	35	0	0
Pickens	4,608	3,399	2,738	1,588	474	40	745	1,736	651	35	0	0
Saluda	13,093	873	7,006	7	1,185	33	4,589	833	0	0	313	0
Spartanburg	7,443	2,049	1,852	796	1,402	125	4,189	1,128	0	0	0	0
Union	12,434	4,970	2,524	192	1,425	209	8,485	4,569	0	0	0	0
York	9,654	2,524	1,834	550	2,139	552	5,681	1,422	0	0	0	0
All counties	192,750	61,605	76,926	12,059	22,627	2,090	90,666	47,386	1,302	70	1,229	0

<sup>a</sup> Includes roundwood that was delivered to nonpulpmills and then chipped and sold to pulpmills (2,401,000 cubic feet in 1995).

**Table 21—Total roundwood output by product, species group, and source of material, South Carolina, 1995**

Product and species group	All sources	Total	Growing-stock trees		Other sources
			Sawtimber	Poletimber	
Thousand cubic feet					
Saw logs					
Softwood	219,484	214,441	211,499	2,942	5,043
Hardwood	27,615	25,970	25,476	494	1,645
Total	247,100	240,411	236,975	3,436	6,688
Veneer logs and bolts					
Softwood	42,086	40,587	40,099	488	1,499
Hardwood	7,881	7,791	7,791	0	90
Total	49,967	48,378	47,890	488	1,589
Pulpwood					
Softwood	211,577	196,120	88,949	107,171	15,457
Hardwood	107,941	98,842	38,296	60,546	9,099
Total	319,518	294,962	127,245	167,717	24,556
Composite panel					
Softwood	1,302	1,207	547	660	95
Hardwood	70	64	25	39	6
Total	1,372	1,271	572	699	101
Poles and posts					
Softwood	3,765	3,126	3,046	80	639
Hardwood	0	0	0	0	0
Total	3,765	3,126	3,046	80	639
Other miscellaneous					
Softwood	261	214	156	58	47
Hardwood	0	0	0	0	0
Total	261	214	156	58	47
Total industrial products					
Softwood	478,475	455,695	344,296	111,399	22,780
Hardwood	143,507	132,667	71,588	61,079	10,840
Total	621,982	588,362	415,884	172,478	33,620
Fuelwood					
Softwood	7,886	3,751	2,051	1,700	4,135
Hardwood	48,451	32,412	25,875	6,537	16,039
Total	56,337	36,163	27,926	8,237	20,174
All products					
Softwood	486,361	459,446	346,347	113,099	26,915
Hardwood	191,958	165,079	97,463	67,616	26,879
Total	678,319	624,525	443,810	180,715	53,794



**Table 22—Total roundwood output by species group, survey unit, and ownership,  
South Carolina, 1995**

Species group and survey unit	Total	National forest	Other public	Forest industry	Nonindustrial private
<i>Thousand cubic feet</i>					
<b>Softwoods</b>					
Southern Coastal Plain	132,288	0	8,409	30,488	93,390
Northern Coastal Plain	158,145	2,624	11,717	45,630	98,174
Piedmont	195,928	9,695	5,374	55,788	125,071
Total softwoods	486,361	12,320	25,500	131,906	316,635
<b>Hardwoods</b>					
Southern Coastal Plain	48,306	0	722	12,764	34,820
Northern Coastal Plain	61,247	161	3,386	12,038	45,662
Piedmont	82,405	4,277	7,504	16,391	54,234
Total hardwoods	191,958	4,438	11,612	41,193	134,715
<b>All species</b>	678,319	16,758	37,112	173,099	451,350

**Table 23—Total roundwood output by species group, detailed species group, and product,  
South Carolina, 1995**

Species group and detailed species group	Product							
	Total	Saw log	Veneer	Pulpwood	Composite		Poles	Other
					panel	Fuelwood	and posts	miscellaneous
Thousand cubic feet								
Softwood								
Cedar	3,009	1,087	404	1,452	0	49	6	11
Longleaf-slash pine	74,160	34,519	4,368	33,453	0	1,202	610	8
White pine	374	116	22	208	22	6	0	0
Loblolly-shortleaf pine	365,341	164,984	33,243	157,037	1,012	5,923	2,903	239
Other yellow pines	37,655	15,307	3,655	17,620	268	611	191	2
Cypress	5,821	3,472	394	1,806	0	94	54	0
Total softwoods	486,361	219,484	42,086	211,577	1,302	7,886	3,765	261
Hardwood								
Soft maple	11,097	1,681	469	6,144	2	2,801	0	0
Other birch	918	203	43	440	0	232	0	0
Hickory	7,683	1,607	284	3,851	2	1,939	0	0
Beech	577	137	12	282	1	146	0	0
Ash	5,580	836	300	3,035	1	1,408	0	0
Black walnut	55	2	1	38	0	14	0	0
Sweetgum	42,054	4,822	1,800	24,816	1	10,615	0	0
Yellow-poplar	15,486	2,378	581	8,600	18	3,909	0	0
Blackgum-tupelo	12,750	1,546	689	7,295	2	3,218	0	0
Sycamore	2,040	178	105	1,242	0	515	0	0
Cottonwood	516	78	61	247	0	130	0	0
Black cherry	611	89	32	335	1	154	0	0
Select white oaks	19,036	2,963	380	10,874	14	4,805	0	0
Other white oaks	7,789	1,179	236	4,405	3	1,966	0	0
Select red oaks	5,504	714	183	3,216	1	1,389	0	0
Other red oaks	47,691	7,439	2,281	25,912	22	12,037	0	0
Elm	5,152	516	155	3,180	1	1,300	0	0
Other Eastern hardwoods	7,420	1,247	268	4,029	3	1,873	0	0
Total hardwoods	191,958	27,615	7,881	107,941	70	48,451	0	0
All species	678,319	247,099	49,967	319,518	1,372	56,337	3,765	261

**Table 24—Total roundwood output by species group, detailed species group, and ownership, South Carolina, 1995**

Species group and detailed species group	Total	National forest	Other public	Forest industry	Nonindustrial private
<i>Thousand cubic feet</i>					
<b>Softwood</b>					
Cedar	3,009	143	115	1,020	1,732
Longleaf-slash pine	74,160	446	9,774	17,258	46,683
White pine	374	48	9	0	317
Loblolly-shortleaf pine	365,341	11,257	13,876	105,822	234,386
Other yellow pines	37,655	426	1,555	6,596	29,077
Cypress	5,821	0	171	1,210	4,440
Total softwoods	486,361	12,320	25,500	131,906	316,635
<b>Hardwood</b>					
Soft maple	11,097	88	732	2,736	7,541
Other birch	918	113	269	149	388
Hickory	7,683	157	1,121	1,533	4,871
Beech	577	7	47	78	445
Ash	5,580	56	359	1,375	3,790
Black walnut	55	0	0	21	34
Sweetgum	42,054	749	1,959	8,405	30,941
Yellow-poplar	15,486	355	649	2,963	11,519
Blackgum-tupelo	12,750	38	505	2,615	9,592
Sycamore	2,040	393	9	628	1,010
Cottonwood	516	0	33	115	368
Black cherry	611	16	24	82	489
Select white oaks	19,036	606	1,152	3,828	13,450
Other white oaks	7,789	247	1,077	1,151	5,313
Select red oaks	5,504	221	391	1,517	3,376
Other red oaks	47,691	1,160	2,462	11,829	32,240
Elm	5,152	176	220	964	3,791
Other Eastern hardwoods	7,420	56	603	1,204	5,557
Total hardwoods	191,958	4,438	11,612	41,193	134,715
<b>All species</b>	678,319	16,758	37,112	173,099	451,350



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In 1995, roundwood output from South Carolina's forests totaled 622 million cubic feet, 5 percent less than in 1994. Mill byproducts generated from primary manufacturers declined 4 percent to 203 million cubic feet. Almost all plant residues were used primarily for fuel and fiber products. Pulpwood was the leading roundwood product at 320 million cubic feet; saw logs ranked second at 247 million cubic feet; veneer logs were third at 50 million cubic feet. The number of primary processing plants declined from 105 in 1994 to 99 in 1995. Total receipts declined 5 percent to about 619 million cubic feet.

**Keywords:** Pulpwood, residues, roundwood, saw logs, veneer logs, wood movement.

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